

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A system to provide a determination of an alignment of a prosthetic bearing in an acetabular prosthesis, the system comprising:

a trial shell ~~having an~~;

a plurality of attachment device ~~thereon~~ devices defined by the trial shell;

and

an attachment member moveable between a locating position and a fastened position to selectively and operably interconnect said trial shell to the acetabular prosthesis via at least one of said plurality of attachment device ~~devices~~;

wherein said trial shell is moveable in one degree of freedom around an axis defined by said attachment member in said locating position and substantially immobile relative to the acetabular prosthesis in said fastened position.

2. (currently amended) The system of claim 1, wherein the acetabular prosthesis includes:

an acetabular cup generally defining a portion of a hollow sphere and ~~having~~ defining a bore ~~therein~~, said attachment member engaging said acetabular cup at said bore in said locating position and said fastened position.

3. (currently amended)The system of claim ~~[[1]]~~ 2 wherein said attachment member includes:

an attachment end engaged with said bore;

a central portion extending ~~between~~ through at least one of said plurality of attachment ~~device~~ devices; and

an engagement end ~~for manipulating~~ operable to move said attachment member between said locating position and said fastened position.

4. (currently amended)~~The system of claim 3, further comprising:~~

A system to provide a determination of an alignment of a prosthetic bearing in an acetabular prosthesis, the system comprising:

a trial shell defining an attachment device thereon;

an attachment member moveable between a locating position and a fastened position to selectively and operably interconnect said trial shell to the acetabular prosthesis via said attachment device; and

a locking member adapted to engage said attachment member to operably couple said attachment member ~~[[and]]~~ to said trial shell;

wherein said trial shell is moveable in one degree of freedom around an axis defined by said attachment member in said locating position and substantially immobile relative to the acetabular prosthesis in said fastened position;

wherein said attachment member includes:

an attachment end engagable with a bore defined by the acetabular prosthesis;

a central portion extending through said attachment device; and
an engagement end for manipulating said attachment member
between said locating position and said fastened position.

5. (currently amended)The system of claim 1 wherein the acetabular cup includes an outer rim defining an acetabular cup plane and said trial shell includes an outer rim defining a trial shell plane, wherein the location of at least one of said plurality of attachment device devices determines a predetermined angle said trial shell plane is oriented ~~[[from]]~~ relative to the acetabular cup plane.

6. (original) The system of claim 5 wherein said predetermined angle is between 0 and 40 degrees.

7. (currently amended)The system of claim 1 wherein each of said plurality of attachment device includes devices include a passage ~~incorporated on~~ defined by said trial shell for receiving said attachment member.

8. (currently amended)A system to provide a determination of an alignment of a prosthetic bearing in an acetabular prosthesis, the system comprising:

a first trial shell defining a first trial shell plane and ~~having~~ defining a first attachment device ~~thereon~~;

a second trial shell defining a second trial shell plane and ~~having~~ defining a second attachment device ~~thereon~~; and

an attachment member moveable between a locating position and a fastened position to selectively and alternatively interconnect each of said first and second trial shell to the acetabular prosthesis ~~[[at]]~~ via said respective attachment device, each of said first and second trial shell moveable in one degree of freedom around an axis defined by said attachment member in said locating position;

wherein said first trial shell plane is oriented at a first angle ~~from an~~ relative to acetabular cup plane in said locating position and said second trial shell plane is oriented at a second angle ~~from~~ relative to said acetabular cup plane in said locating position, said second angle distinct from said first angle.

9. (currently amended)The system of claim 8 wherein said first attachment device is ~~located~~ defined at a distinct location on said first trial shell from said second attachment device on said second trial shell.

10. (currently amended)The system of claim 8, wherein the acetabular prosthesis includes:

an acetabular cup generally defining a portion of a hollow sphere and having defining a bore therein, said attachment member engaging said bore in said locating position and said fastened position.

11. (currently amended)The system of claim 8, wherein said attachment member includes:

an attachment end ~~engaged with~~ operable to engage said acetabular cup via said bore;

a central portion extending ~~between~~ through said attachment device; and

an engagement end for manipulating said attachment member between said locating and said fastened position.

12. (currently amended)~~The system of claim 8, further comprising:~~

A system to provide a determination of an alignment of a prosthetic bearing in an acetabular prosthesis, the system comprising:

a first trial shell defining a first trial shell plane and defining a first attachment device;

a second trial shell defining a second trial shell plane and defining a second attachment device;

an attachment member moveable between a locating position and a fastened position to selectively and alternatively interconnect each of said first and

second trial shell to the acetabular prosthesis at said respective attachment device,
each of said first and second trial shell moveable in one degree of freedom around an
axis defined by said attachment member in said locating position; and

_____ a locking member adapted to engage said attachment member to
operably couple said attachment member and one of said first and second trial shell;

_____ wherein said first trial shell plane is oriented at a first angle relative to an
acetabular cup plane in said locating position and said second trial shell plane is
oriented at a second angle relative to said acetabular cup plane in said locating position,
said second angle distinct from said first angle.

13. (currently amended) The system of claim 8, further comprising a third trial shell defining a third trial shell plane and ~~having~~ defining a third attachment device ~~thereon~~, said third trial shell plane defining a third distinct angle ~~[[with]]~~ relative to said acetabular cup plane from said first and second trial shell plane when assembled in said locating position.

14. (original) The system of claim 13 wherein said first, second and third angle is between 0 and 40 degrees.

15. (currently amended) The system of claim 8 wherein said first or second attachment device ~~includes~~ defines a passage ~~incorporated on~~ through said first and second trial shell for ~~receiving~~ allowing said attachment member to pass through said first or second trial shell.

16. (currently amended) A system to provide a determination of an alignment of a prosthetic, the system comprising:

an acetabular prosthesis operable to be implanted;

a trial shell ~~having~~ defining an attachment device ~~thereon~~; and

an attachment member moveable between a locating position and a fastened position to selectively and operably interconnect said trial shell to said acetabular prosthesis ~~[[at]]~~ via said attachment device;

wherein said trial shell is moveable in one degree of freedom around an axis defined by said attachment member in said locating position and substantially immobile relative to said acetabular prosthesis in said fastened position.

17. (currently amended)The system of claim 16, wherein said acetabular prosthesis includes:

an acetabular cup generally defining a portion of a hollow sphere and ~~having~~ defining a bore ~~therein~~, said attachment member engaging said acetabular cup via said bore in said locating position and said fastened position.

18. (currently amended)The system of claim ~~[[16]]~~ 17 wherein said attachment member includes:

an attachment end engaged with said acetabular cup via said bore;

a central portion extending ~~between~~ through said attachment device; and

an engagement end ~~for manipulating~~ operable to move said attachment member between said locating position and said fastened position.

19. (currently amended) ~~The system of claim 18, further comprising:~~

A system to provide a determination of an alignment of a prosthetic, the system comprising:

an acetabular prosthesis;

a trial shell defining an attachment device;

an attachment member moveable between a locating position and a fastened position to selectively and operably interconnect said trial shell to said acetabular prosthesis via said attachment device; and

a locking member adapted to engage said attachment member to operably couple said attachment member and said trial shell;

wherein said trial shell is moveable in one degree of freedom around an axis defined by said attachment member in said locating position and substantially immobile relative to said acetabular prosthesis in said fastened position;

wherein said attachment member includes:

an attachment end engagable with a bore defined by said acetabular prosthesis;

a central portion extending through said attachment device; and

an engagement end operable to move said attachment member between said locating and said fastened position.

20. (currently amended) The system of claim ~~[[16]]~~ 17 wherein the acetabular cup includes an outer rim defining an acetabular cup plane and said trial shell includes an outer rim defining a trial shell plane, wherein the location of said attachment device determines a predetermined angle said trial shell plane is oriented from the acetabular cup plane.

21. (original) The system of claim 20 wherein said predetermined angle is between 0 and 40 degrees.

22. (original) The system of claim 16 wherein said attachment device includes a passage ~~incorporated on~~ defined by said trial shell for receiving said attachment member.

23. (currently amended) A method of implanting an acetabular prosthesis in an acetabulum and providing a liner in the acetabular prosthesis in a selected orientation, the method comprising:

implanting the acetabular prosthesis;

disposing a first trial shell in said implanted acetabular prosthesis, said first trial shell having an outer dimension defining a first plane and extending at a first angle from said implanted acetabular prosthesis;

orienting said first trial shell having one degree of freedom in a first orientation;

fixing said first trial shell in said first orientation; and

moving a femur through a range of motion relative to the first trial shell.

24. (original) The method of claim 23 further comprising:

removing said first trial shell;

disposing a second trial shell in said acetabular prosthesis, said second trial shell having an outer dimension defining a second plane and extending at a second angle from said acetabular prosthesis, said second angle distinct from said first angle;

orienting said second trial shell having one degree of freedom in a second orientation;

fixing said second trial shell in said second orientation; and

moving said femur through a range of motion relative to said second trial shell.

25. (original) The method of claim 23 wherein orienting said first trial shell includes rotating said first trial shell around an attachment member selectively coupling said first trial shell to the acetabular prosthesis.

26. (original) The method of claim 25 wherein fixing the first trial shell includes actuating said attachment member into a fastened position wherein said first trial shell is substantially immobile relative to the acetabular prosthesis.

27. (original) The method of claim 23, further comprising:
placing a head extending from said femur in said first trial shell;
moving said femur through a range of motion while maintaining said head in said first trial shell; and
determining the presence of contact between said femur and said first trial shell.

28. (currently amended) A method of implanting an acetabular prosthesis in an acetabulum and providing a liner in the acetabular prosthesis in a selected orientation, the method comprising:

implanting the acetabular prosthesis, the acetabular prosthesis defining an acetabular cup plane;

disposing a first trial shell in said implanted acetabular prosthesis, said first trial shell having an outer dimension defining a first plane and extending at a first angle [[from]] relative to said implanted acetabular prosthesis;

orienting said first trial shell having one degree of freedom in a first orientation;

fixing said first trial shell in said first orientation;

determining the presence of contact between a femur and said first trial shell; and

replacing said first trial shell with a second trial shell in said implanted acetabular prosthesis based on said determination, said second trial shell having an outer dimension defining a second plane and extending at a second angle [[from]] relative to said acetabular cup plane, said second angle distinct from said first angle.

29. (original) The method of claim 28 wherein determining the presence of contact includes:

placing a head extending from said femur in said first trial shell;
moving said femur through a range of motion while maintaining said head in said first trial shell; and
determining the presence of contact between said femur and said first trial shell.

30. (original) The method of claim 28 wherein orienting said first trial shell includes rotating said first trial shell around an attachment member selectively coupling said first trial shell to the acetabular prosthesis.

31. (currently amended) The method of claim 28 wherein disposing a first trial shell includes:

placing said first trial ~~[[cup]]~~ shell in the acetabular prosthesis;
aligning a first attachment device ~~[[of]]~~ defined by said first trial shell with a bore ~~[[in]]~~ defined by the acetabular prosthesis; and
engaging the acetabular prosthesis with an attachment member ~~[[with]]~~ at said bore thereby coupling said first trial shell with the acetabular prosthesis.

32. (original) The method of claim 31 wherein fixing said first trial shell includes actuating said attachment member into a fastened position wherein said first trial shell is substantially immobile relative to the acetabular prosthesis.

33. (currently amended)The method of claim 31 wherein replacing said first trial shell includes:

removing said attachment member from engagement with said first trial shell and the acetabular prosthesis;

removing said first trial ~~[[cup]]~~ shell from the acetabular prosthesis;

placing said second trial ~~[[cup]]~~ shell in the acetabular prosthesis;

aligning a second attachment device defined by ~~[[of]]~~ said second trial shell with said bore; and

engaging the acetabular prosthesis with said attachment member ~~[[with]]~~ at said bore thereby coupling said second trial shell with the acetabular prosthesis.